

# Haley Morgan

Software Engineer

**Phone** (774)-262-7555

**Email** haleymorgan3264@gmail.com

**Location** Medford, MA

**GitHub** [github.com/h-morgan](https://github.com/h-morgan)

**LinkedIn** [linkedin.com/in/haleymorgan](https://linkedin.com/in/haleymorgan)

**Personal** [haleymorgan.com](https://haleymorgan.com)

## SKILLS

---

*Languages:* Python, SQL (PostgreSQL, MySQL), HTML, CSS, Java, JavaScript

*Frameworks/Libraries:* Flask, NumPy, pandas, Matplotlib, Jinja, Bootstrap, React

*Tooling/Other:* Linux, Azure, Docker, Vim, Git/GitHub, Confluence (Jira, BitBucket), pgAdmin, RabbitMQ

## PROFESSIONAL EXPERIENCE

---

SEP 2019 - PRESENT

### Software Engineer - BNY Mellon, Data & Analytics Solutions (Remote)

- Design and develop data pipeline infrastructure to process and load multisource data in all application environments using Azure cloud services, Python (Flask), RabbitMQ, and PostgreSQL
- Design, develop, and maintain a data quality and validation service to capture statistics on data processed within the pipeline and ensure 100% application data accuracy
- Maintain >93% unit test coverage on all code repositories I am responsible for, continuous builds within a CI/CD environment

OCT 2019 - SEP 2019

### Research Programmer – Boston Fusion Corp. (Lexington, MA)

- Design and develop machine learning software for anomaly detection research programs in direct consultation with project Principal Investigator (PI)
- Develop parsers to fuse multisource data to develop and integrate massive processed datasets for use in predictive analytics and software programs
- Lead UI development for design, build, and production of full-stack web applications according to client specifications and needs

OCT 2018 – SEP 2019

### Information Privacy and Compliance Analyst – Clark University (Worcester, MA)

- Collaborated with end users to continuously collect and analyze functional requirements and use cases for all enterprise projects, evolving solutions as needed
- Developed and maintained a system to triage and monitor malicious phishing emails using regex rules written in the YARA language to decrease exposure of compromised accounts
- Assisted in security testing response efforts to secure and stabilize enterprise applications, upholding the CIA triad

APR 2017 – OCT 2018

### Engineer I – Tetra Tech (Marlborough, MA)

- Performed site and system redesign through continuous iterations as member of an interdisciplinary team to eliminate costly and unnecessary complexities
- Applied technical knowledge to design Department of Defense (DoD) and USAID international bases/sites using AutoCAD
- Maintained Active Secret Security clearance for ability to work on classified projects

## PROJECTS

---

MAR 2020 – PRESENT

### Value Investment Research Application

Developing an investment research application that accesses the SEC's EDGAR system, retrieves filings, scrapes, and analyzes historical financial statements to inform investment decisions using Python

## EDUCATION

---

2020

### University of Pennsylvania (UPenn)

*Professional Certificate, Computer Science Essentials for Software Development*

2016

### Worcester Polytechnic Institute (WPI)

*Bachelor of Science, Civil Engineering*